

Ser. No. 10/020,768

In the Claims

1. (currently amended) A wet-laid nonwoven reinforcing mat, comprising:
 - (a.) a base web including about 10 to [[about]] less than 50 percent by weight glass fibers [[and]], about 50 to about 90 percent by weight polyethylene terephthalate fibers[[;]] and [[(b.)]] polyvinyl alcohol in an amount of about 16 to about 35 percent of the combined weight of the glass fibers and the polyethylene terephthalate fibers; and
[(c.)] (b.) a secondary binder in an amount of about 12 to about 30 percent of the combined weight of said glass fibers, polyethylene terephthalate fibers and polyvinyl alcohol; and
~~(d.) wherein said combined total of polyvinyl alcohol and secondary binder in said reinforcing mat is greater than 50% by weight.~~
 2. (original) The reinforcing mat of claim 1 wherein said glass fibers are selected from a group consisting of E glass fibers, C glass fibers, A glass fibers and any mixtures thereof.
 3. (original) The reinforcing mat of claim 1 wherein said glass fibers have a diameter of from about 6 to about 16 microns and a length of from about 4 to about 25 mm.
 4. (previously presented) The reinforcing mat of claim 1 wherein said polyethylene terephthalate fibers have a diameter of from about 6 to about 12 microns and a length of from about 4 to about 25 mm.
 5. (original) The reinforcing mat of claim 1 wherein said polyethylene terephthalate fibers have a melting point above about 250EC.
 6. (previously presented) The reinforcing mat of claim 5 wherein aramid fibers are substituted for said polyethylene terephthalate fibers.

Ser. No. 10/020,768

7. (previously presented) The reinforcing mat of claim 1 wherein said polyethylene terephthalate fibers do not melt below 220EC.
8. (original) The reinforcing mat of claim 1 wherein said polyvinyl alcohol is in a form of a fiber, a powder or both.
5
9. (canceled)
10. (canceled)
10
11. (original) The reinforcing mat of claim 1 wherein said secondary binder is a water based emulsion or solution type binder.
15
12. (previously presented) The reinforcing mat of claim 1 wherein said secondary binder is selected from a group consisting of acrylic, ethylene vinyl acetate and any mixtures thereof.
15
13. (original) The reinforcing mat of claim 1 wherein said base web includes glass fibers in an amount of about 25 to about 40 percent by weight
20 of the fibers.
20
14. (original) The reinforcing mat of claim 1 wherein said base web includes polyethylene terephthalate fibers in an amount of about 60 to about 75 percent by weight of the fibers.
25
15. (previously presented) The reinforcing mat of claim 1 wherein said polyvinyl alcohol is provided in an amount of about 16 to about 20 percent of the total weight of the glass fibers and the polyethylene terephthalate fibers.
25
16. (original) The reinforcing mat of claim 1 wherein said secondary binder is provided in an amount of about 15 to about 25 percent of the total weight of said base web.
30

Ser. No. 10/020,768

17. (presently presented) The reinforcing mat of claim 1 wherein said base web includes glass fibers in an amount of about 25 to about 40 percent by weight, polyethylene terephthalate fibers in an amount of about 60 to about 75 percent by weight and polyvinyl alcohol in an amount of about 16 to about 20 percent of the total weight of the glass fibers and the polyethylene terephthalate fibers.
18. (original) The reinforcing mat of claim 17, wherein said secondary binder is provided in an amount of about 15 to about 25 percent of the total weight of said base web.
19. (original) The reinforcing mat of claim 18 wherein said polyvinyl alcohol is in a fiber form having a diameter of about 6 to about 20 microns and a length of about 4 to about 12 mm.
20. (original) The reinforcing mat of claim 19 wherein said polyvinyl alcohol is in a powder form having a particle size of from about 50 to about 250 microns.
21. (previously presented) The reinforcing mat of claim 1 wherein said secondary binder is polyvinyl alcohol.

22. (previously presented as dependent claim 9) A wet-laid nonwoven reinforcing mat, comprising:

- (a.) a base web including about 10 to about 80 percent by weight glass fibers, and about 20 to about 90 percent by weight polyethylene terephthalate fibers;
- (b.) polyvinyl alcohol in an amount of about 5 to about 35 percent of the combined weight of the glass fibers and the polyethylene terephthalate fibers; and
- (c.) a secondary binder in an amount of about 10 to about 30 percent of the combined weight of said glass fibers, polyethylene terephthalate fibers and polyvinyl alcohol;

wherein said polyvinyl alcohol is in a fiber form having a diameter of about 6 to about 20 microns and a length of about 4 to about 12 mm.

23. (previously presented) The reinforcing mat of claim 22 wherein said polyvinyl alcohol fiber has a diameter of between about 6 to about 11 microns.

24. (previously presented) A wet-laid nonwoven reinforcing mat, comprising:

- (a.) a base web including about 10 to about 80 percent by weight glass fibers, and about 20 to about 90 percent by weight polyethylene terephthalate fibers;
- (b.) polyvinyl alcohol in an amount of about 5 to about 35 percent of the combined weight of the glass fibers and the polyethylene terephthalate fibers; and
- (c.) a secondary binder in an amount of about 10 to about 30 percent of the combined weight of said glass fibers, polyethylene terephthalate fibers and polyvinyl alcohol;

wherein said polyvinyl alcohol is in a powder form having a particle size of from about 50 to about 250 microns.